

IN THE  
UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): David C. Collins

Confirmation No.:

Application No.:

Examiner:

Filing Date: herewith

Group Art Unit:

Title: GENERATING AND DISPLAYING SPATIALLY OFFSET SUB-FRAMES

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

This Information Disclosure Statement is submitted:

- (X) under 37 CFR 1.97(b), or  
(Within three months of filing national application; or date of entry of national application; or before mailing date of first office action on the merits; whichever occurs last)
- ( ) under 37 CFR 1.97(c) together with either a:  
( ) Statement under 37 CFR 1.97(e), or  
( ) a \$180.00 fee under 37 CFR 1.17(p), or  
(After the CFR 1.97 (b) time period, but before final action or notice of allowance, whichever occurs first)
- ( ) under 37 CFR 1.97 (d) together with a:  
( ) Statement under 37 CFR 1.97(e)(1) or (2), and  
( ) a \$180.00 fee set forth in 37 CFR 1.17(p).  
(Filed after final action, a notice of allowance, on or before payment of the issue fee)

Please charge to Deposit Account **08-2025** the sum of \$0.00 . At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account **08-2025** pursuant to 37 CFR 1.25.

(X) Applicant(s) submit herewith Form PTO 1449 - Information Disclosure Statement together with any required copies of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.

( ) A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individuals(s) designated in 37 CFR 1.56 (c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO 1449 and is enclosed herewith.

It is requested that the information disclosed herein be made of record in this application.

"Express Mail" label no. ER314293789US

Date of Deposit Apr. 8, 2004

I hereby certify that this is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to: Commissioner for Patents, Alexandria, VA 22313-1450.

By

Typed Name: Denyse Daophinais

Respectfully submitted,

David C. Collins

By

Christopher P. Kosh

Attorney/Agent for Applicant(s)  
Reg. No. 42,760

Date: Apr. 8, 2004

|   |  |                 |                  |
|---|--|-----------------|------------------|
| <b>FORM PTO-1449</b><br><br><b>LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT</b><br><br>(Use several sheets if necessary) | ATTY. DOCKET NO.<br><b>200400519-1</b> | APPLICATION NO. | CONFIRMATION NO. |
|   | APPLICANT<br><b>David C. Collins</b>   |                 |                  |
|   | FILING DATE<br><b>Herewith</b>         | GROUP           |                  |

## REFERENCE DESIGNATION

## U.S. PATENT DOCUMENTS

| EXAMINER INITIAL |    | DOCUMENT NUMBER | PUBLICATION DATE | NAME               | Pages, Columns, Lines Where Relevant Passages or Figures Appear |
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|                  | 1C | 4,811,003       | Mar. 1989        | Strathman et al.   |   |
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|                  | 1F | 5,083,857       | Jan. 28, 1992    | Hornbeck           |   |
|                  | 1G | 5,146,356       | Sep. 1992        | Carlson            |   |
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|  |    | DOCUMENT NUMBER | PUBLICATION DATE | NAME OF PATENTEE OR APPLICANT | Pages/Columns/Lines Where Relevant Passages/Figures Appear | Check if Translation attached |
|--|----|-----------------|------------------|-------------------------------|--|-------------------------------|
|  | 1L | EP 1001306A2    | May 17, 2000     | Olympus Optical Co.,          |  | X                             |
|  | 1M |                 |                  |                               |  |                               |
|  | 1N |                 |                  |                               |  |                               |
|  | 1O |                 |                  |                               |  |                               |
|  | 1P |                 |                  |                               |  |                               |

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|  | 1Q | L.M. Chen and S. Hasagawa, "Visual Resolution Limits for Color Matrix Displays", "One-Panel Projectors", Displays, Technologies, and Applications, Vol. 13, pp. 221-226, 1992. |
|  | 1R | A. Yasuda et al., "FLC Wobbling for High-Resolution Projectors", Journal of the SID 5/3 1997, pp. 299-305.   |
|  | 1S | T. Tokita et al., "P-108: FLC Resolution-Enhancing Device for Projection Displays", SID 02 Digest 2002, pp. 638-641.   |

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## U.S. PATENT DOCUMENTS

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|--|----|--------------------|---------------------|----------------------------------|---|-------------------------------------|
|  | 2L |                    |                     |                                  |   |                                     |
|  | 2M |                    |                     |                                  |   |                                     |
|  | 2N |                    |                     |                                  |   |                                     |
|  | 2O |                    |                     |                                  |   |                                     |
|  | 2P |                    |                     |                                  |   |                                     |

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|  | 2Q | D.H. Kelly, "Motion and Vision - II. Stabilized Spatio-Temporal Threshold Surface," Journal of the Optical Society of America, Vol. 69, No. 10, October 1979.                 |
|  | 2R | Candice H. Brown Elliot et al., "Color Subpixel Rendering Projectors and Flat Panel Displays"; SMPTE Advanced Motion Imaging Conference; February 27-March 1, 2003; pgs. 1-4. |
|  | 2S | Diana C. Chen, "Display Resolution Enhancement with Optical Scanners" Applied Optics, Vol. 40, No. 5, February 10, 2001, pp. 636-643.   |

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|                     | 3K |                    |                     |                  |  |

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|  | 3L |                    |                     |                                  |   |                                     |
|  | 3M |                    |                     |                                  |   |                                     |
|  | 3N |                    |                     |                                  |   |                                     |
|  | 3O |                    |                     |                                  |   |                                     |
|  | 3P |                    |                     |                                  |   |                                     |

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|  | 3R |  |
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